

Table 1-13: U.S Greenhouse Gas Emissions by “Economic Sector” and Gas with Electricity-Related Emissions Distributed (Tg CO₂ Eq.) and percent of total in 2001

Sector/Gas	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Percent ^a
Industry	2,097.3	2,071.3	2,127.6	2,121.3	2,158.1	2,164.0	2,224.1	2,244.7	2,209.4	2,165.0	2,200.6	2,074.0	29.9%
Direct Emissions	1,423.3	1,390.8	1,425.1	1,408.0	1,431.2	1,444.7	1,484.9	1,485.4	1,433.5	1,381.4	1,400.6	1,315.7	19.0%
CO ₂	1,081.1	1,057.3	1,092.7	1,086.4	1,107.5	1,116.6	1,153.3	1,163.1	1,110.1	1,077.4	1,103.5	1,037.6	15.0%
CH ₄	240.0	238.9	235.9	226.2	226.9	229.0	223.8	221.8	218.9	209.6	207.4	203.2	2.9%
N ₂ O	40.8	40.2	38.8	40.5	42.8	45.3	46.0	40.0	35.2	33.9	33.5	31.1	0.4%
HFCs, PFCs, and SF ₆	61.3	54.4	57.7	54.8	54.1	53.9	61.8	60.5	69.3	60.6	56.3	43.7	0.6%
Electricity-Related	674.0	680.5	702.5	713.3	726.9	719.3	739.2	759.3	775.9	783.6	799.9	758.4	10.9%
CO ₂	659.3	665.3	687.7	697.3	711.8	706.2	725.9	746.9	765.2	774.3	791.1	750.0	10.8%
CH ₄	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+
N ₂ O	2.8	2.8	3.0	3.0	3.0	3.0	3.1	3.2	3.2	3.2	3.3	3.1	+
SF ₆	11.6	12.2	11.7	12.8	11.9	9.9	9.9	9.0	7.3	5.8	5.3	5.1	0.1%
Transportation	1,528.8	1,497.6	1,536.4	1,570.1	1,622.4	1,654.1	1,697.2	1,710.0	1,739.6	1,800.9	1,852.4	1,870.5	27.0%
Direct Emissions	1,525.6	1,494.5	1,533.4	1,567.0	1,619.2	1,651.0	1,694.1	1,706.8	1,736.5	1,797.7	1,849.0	1,866.8	26.9%
CO ₂	1,470.5	1,437.1	1,471.9	1,501.4	1,549.8	1,577.8	1,617.4	1,626.9	1,653.9	1,713.0	1,762.7	1,780.9	25.7%
CH ₄	4.5	4.5	4.5	4.5	4.4	4.4	4.3	4.2	4.1	4.0	4.0	3.9	0.1%
N ₂ O	50.6	53.0	56.2	58.6	60.4	60.9	60.7	60.3	59.7	58.8	57.46	54.75	0.8%
HFCs ^b	+	+	0.8	2.5	4.5	7.8	11.7	15.4	18.8	21.9	24.78	27.35	0.4%
Electricity-Related	3.1	3.0	3.0	3.1	3.2	3.1	3.1	3.1	3.2	3.2	3.45	3.62	0.1%
CO ₂	3.1	3.0	3.0	3.0	3.1	3.0	3.0	3.1	3.1	3.2	3.4	3.6	0.1%
CH ₄	+	+	+	+	+	+	+	+	+	+	+	+	+
N ₂ O	+	+	+	+	+	+	+	+	+	+	+	+	+
SF ₆	0.1	0.1	0.1	0.1	0.1	+	+	+	+	+	+	+	+
Residential	943.2	956.2	955.2	1,016.3	1,005.7	1,019.5	1,080.5	1,073.8	1,076.2	1,095.5	1,154.7	1,138.7	16.4%
Direct Emissions	334.5	345.6	354.6	374.0	363.8	371.3	402.1	385.4	352.8	372.4	390.1	379.4	5.5%
CO ₂	328.9	339.6	348.4	367.3	357.7	358.5	388.6	371.7	338.8	357.3	373.9	363.3	5.2%
CH ₄	4.6	4.8	5.0	4.4	4.3	4.7	4.7	3.6	3.3	3.5	3.7	3.5	0.1%
N ₂ O	1.1	1.2	1.2	1.1	1.1	1.2	1.2	1.0	0.9	0.9	1.0	0.9	+
HFCs	+	+	+	1.1	0.7	6.9	7.6	9.2	9.8	10.7	11.6	11.6	0.2%
Electricity-Related	608.7	610.7	600.5	642.3	641.9	648.3	678.4	688.4	723.4	723.1	764.5	759.3	10.9%
CO ₂	595.4	597.1	587.8	627.9	628.5	636.4	666.3	677.2	713.4	714.5	756.1	750.9	10.8%
CH ₄	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+
N ₂ O	2.6	2.5	2.5	2.7	2.7	2.7	2.9	2.9	3.0	3.0	3.1	3.1	+
SF ₆	10.5	10.9	10.0	11.5	10.5	9.0	9.1	8.2	6.8	5.3	5.1	5.1	0.1%
Commercial	1,024.5	1,020.1	1,023.0	1,050.6	1,064.2	1,080.7	1,109.7	1,150.9	1,164.2	1,177.7	1,240.9	1,252.6	18.1%
Direct Emissions	472.4	473.5	477.7	479.3	483.0	488.0	495.5	494.0	474.2	480.6	497.6	496.5	7.2%
CO ₂	221.4	222.3	222.8	221.1	222.7	226.9	236.4	237.1	219.5	221.7	234.3	235.9	3.4%
CH ₄	236.9	237.0	240.5	242.9	243.8	243.5	239.8	235.7	230.9	232.7	234.9	232.1	3.3%
N ₂ O	13.1	13.4	13.7	13.9	14.4	14.3	14.5	14.8	15.0	15.4	15.5	15.6	0.2%
HFCs	0.9	0.8	0.7	1.5	2.2	3.4	4.8	6.5	8.9	10.7	12.8	12.9	0.2%
Electricity-Related	552.2	546.6	545.4	571.3	581.2	592.7	614.2	656.9	690.0	697.1	743.3	756.1	10.9%

CO ₂	540.2	534.5	533.9	558.4	569.1	581.8	603.2	646.2	680.5	688.9	735.1	747.8	10.8%
CH ₄	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+
N ₂ O	2.3	2.2	2.3	2.4	2.4	2.5	2.6	2.8	2.8	2.9	3.1	3.1	+
SF ₆	9.5	9.8	9.1	10.3	9.5	8.2	8.2	7.8	6.5	5.1	4.9	5.0	0.1%
Agriculture	512.1	517.2	533.1	528.3	559.3	552.6	555.3	560.4	564.0	560.3	546.5	546.0	7.9%
Direct Emissions	487.8	493.8	508.6	503.3	534.7	525.8	526.1	537.9	539.4	539.8	526.0	525.7	7.6%
CO ₂	46.3	47.8	52.7	52.6	56.2	56.9	52.0	58.3	57.6	59.9	50.4	50.4	0.7%
CH ₄	157.1	158.1	160.3	159.5	165.0	167.6	163.2	163.3	164.6	164.7	162.3	162.2	2.3%
N ₂ O	284.4	287.9	295.5	291.2	313.5	301.4	310.9	316.3	317.3	315.2	313.3	313.1	4.5%
Electricity-Related	24.3	23.4	24.6	25.0	24.6	26.8	29.2	22.5	24.6	20.5	20.5	20.3	0.3%
CO ₂	23.8	22.9	24.0	24.4	24.1	26.3	28.7	22.2	24.2	20.3	20.3	20.0	0.3%
CH ₄	+	+	+	+	+	+	+	+	+	+	+	+	+
N ₂ O	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	+
SF ₆	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.1	+
U.S. Territories	33.7	39.3	37.5	39.5	41.7	44.0	40.1	42.8	47.9	50.2	52.3	54.4	0.8%
CO ₂	33.7	39.3	37.5	39.5	41.7	44.0	40.1	42.8	47.9	50.2	52.3	54.4	0.3%
Total	6,139.6	6,101.8	6,212.9	6,326.2	6,451.4	6,514.9	6,707.0	6,782.6	6,801.3	6,849.5	7,047.4	6,936.2	-

Note: Emissions from electricity generation are allocated based on aggregate electricity consumption in each end-use sector.

Totals may not sum due to independent rounding.

+ Does not exceed 0.05 Tg CO₂ Eq. or 0.05 percent.

^a Percents for year 2001.

^b Includes primarily HFC-134a.